| Form PTO-1449<br>(REV. 8-83)  | 1           | US Dept. of Commerce<br>PATENT & TRADEMARK OFFICE |                                      | ATTY D             | OOCKET NO.                |             | APPLICATION NO. 10/088,648 |              |
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| INFORMATION DISCLOSURE STATEMENT  |             |   |                                      |                    |                           |             |                            |              |
| (Use several sheets if necessary)   |             |   | APPLICANTS Shinichi TAKESHIMA et al. |                    |                           |             |                            |              |
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| (A)   | 1           | 4.902.487   | 02/2                                 | 0/1990             | Cooper et al.             |             |                            |              |
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| CAI   | 2           | EP I 004 347 A2                                   | 05/3                                 | 1/2000             | Europe                    |             |                            |              |
| 11_   | 3           | JP A 2001-205109                                  | 07/3                                 | 1/2001             | Japan                     |             |                            |              |
|   | 4           | JP A 10-118454 w/ abstract                        | 05/1                                 | 2/1998             | Japan                     | ·           |                            |              |
|   | 5           | JP A 9-323039 w/ abstract                         | 12/1                                 | 6/1997             | Japan                     |             | <del></del>                |              |
|   | 6           | JP B2 7-106290                                    | 11/1:                                | 5/1995             | Japan                     |             | -                          |              |
|   | 7->         | JP B2 3012249                                     | 12/10                                | 0/1999             | Japan                     |             | T                          |              |
|   | 8           | JP A 61-149222 w/ abstract                        | 07/0                                 | 7/1986             | Japan                     |             | 1                          |              |
|   | 9           | JP A 63-147912 w/ abstract                        | 06/20                                | 0/1988             | Japan                     |             |                            |              |
| GAI   | 10          | EP 0 160 482 A2                                   | 11/0                                 | 6/1985             | Europe                    |             |                            |              |
|   | <del></del> | OTHER DOCUMENTS (Incl                             | luding                               | Author,            | Fitle, Date, Pertinent Pa | ages, etc.) |                            |              |
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| CAI                              | 1  | EP 1 057 519 A1                                  | 12/06/2000        | Europe                                 |                |                               |              |  |
| 1                                | 2  | EP 1 055 805 A1                                  | 11/29/2000        | Europe                                 |                | -                             |              |  |
|                                  | 3  | WO 01/12320 A1                                   | 02/22/2001        | WIPO                                   |                |                               |              |  |
|                                  | 4  | WO 00/03790                                      | 01/27/2000        | WIPO                                   |                |                               |              |  |
|                                  | 5  | EP 0 993 860 A1                                  | 04/19/2000        | Europe                                 |                |                               |              |  |
|                                  | 6  | GB 2 342 056 A                                   | 04/05/2000        | United Kingdom                         |                |                               |              |  |
|                                  | 7  | EP 0 931 590 A1                                  | 07/28/1999        | Europe                                 |                |                               |              |  |
| CAI                              | 8  | EP 0 852 966 A1                                  | 07/15/1998        | Europe                                 |                |                               |              |  |
|                                  |  | OTHER DOCUMENTS (Inc                             | cluding Author,   | Title, Date, Pertinent Pages, et       | c.)            |                               |              |  |
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|  |   | APPLICAN<br>Shinichi TA                    | APPLICANT(S) Shinichi TAKESHIMA et al. |              |               |              |  |  |
|  |   |  | FILING DATE<br>March 20, 2002          |              | GROUP<br>1764 |              |  |  |
|  | U.S. P  | ATENT DOCUM                                | ENTS                                   |              |               |              |  |  |
| EXAMINER<br>INITIAL  | DOCUMENT NUMBER                                   | DATE                                       | NAM                                    | 1E           | CLASS         | SUB<br>CLASS |  |  |
| CAI  | 1 U.S. 5,853,693                                  | Dec. 29, 1998                              | Ogasawara et al.                       |              |               |              |  |  |
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